

## A METHOD AND APPARATUS FOR PRODUCING A HIGH RESOLUTION IMAGE

### ABSTRACT

A method and apparatus serves for converting a low  
5 resolution first image to a high resolution second image. The  
apparatus includes a light sensor for receiving incident  
light radiated from a scene. The light sensor has a number of  
cells, each defining a predetermined area, and is arranged for  
cyclically scanning the low resolution first image a number of  
10 times while at least one driver moves the light sensor an  
identical number of times in at least one direction. For each  
step the light sensor is moved a distance corresponding to the  
extent of the area covered by the cell in the direction of  
movement while the total distance covered corresponds to the  
15 extent of the cell in the movement direction. Thereby a number  
of subareas are defined. A computer serves to establish a  
representation of the high resolution second image by  
calculating the representation of the received incident light  
from the scene at each subarea by software program. Thereby, a  
20 higher resolution and a better image quality is obtained than  
previously known.